	The second section will be a second section of the second section of the second		k. National design of the state	Juy	de		
Octal No.	COLMANDS	CONSIDTING OF	SUB-COMMANDS	M O	CP	CODE	
11.	OPy CLEAR ADD	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage -Clear A		6519 6592 5608  6517	2 2 2 2	92 (70) (76) (82) 9L	
	dmany	•Add X to A •Clear PCR (EAR and CTS) •Transmit PAK to SAR •Initiate Read to PCR •Advance PAK •Wait Storage	(EAR)	6535	14 14 14 14 14 14	45 97 (79) (72) (86) (82)	
12.	OAy HOLD ADD	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage		6519 6592 6608 	2 2 2 2 4	92 (70) (76) (82) 45	
	ordinary acld	•Clear PCR (EAR and CTS) •Transmit PAK to SAR •Initiate Read to PCR •Advance PAK •Wait Storage	(EAR)		4 4	97 (79) (72) (86) (82)	VX
13.	ONY CLEAR SUBTRACT	Clear X Register Initiate Read to X Transmit EAR to SAR Weit Storage Clear A		6519 6592 6608  6517	2 2 2 2	92 (70) (76) (82) 94	8881C
	ordinary registere	Subtract X from A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Weit Storese	(EAR)	6536 6611 6610 6596 6609	14 14 14 14 14 14	46 97 (79) (72) (86) (82)	12-19-49
14.	OSy HOLD SUBTRACT ardinory Lubbract	Clear X Register Initiate Read to X Transmit EAA to SAR Weit Storage	1 1 1 1 1	6519 6592 6608	2 2 2 2	92 (70) (76) (32)	
		Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Weit Storage	(EAR)	6536 6611 6610 6596 6609	4 4 4 4 4 4	46 97 (79) (72) (86) (82)	
		НА	RLAN SNYDE	R			
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Octal	COUMANDS	CONSISTING OF S	Sub-commands 7	СP	CODE
15 <b>.</b>		See XA 8780			
16.	Y√y FILL Q	Clear X Register Initiate Read to X Transmit EAR to SAR	6519 6592 6608	2 2	92 (70) (76)
	transmit y > Q	Wait Storage Clear Q Register Transmit X to Q Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6518 6515 (EAR) 6611 6610 6596 5609	22444444	(32) 93 31 97 (79) (72) (86) (82)
17.	SDY SUBSTITUTE DIGITS	Initiate Write Transmit EAR to SAR Wait Storage Transmit Q to SBR/PAR Transmit A to SIR Clear PCR (EAR and CTS) Transmit PAR to SAR Advance PAR Initiate Read to PCR Wait Storage	6595 6608  6514 6511 (EAR) 6611 6610 6609 6596	222244444	(71) (70) (82) 34 33 97 (79) (36) (72) (82)
21.	APy ABSOLUTE CLEAR ADD	Clear X Register Initiate Read to X Transmit EAR to SAR	- 6519 6592 6608	2 2 2	92 (70) (76)
	absolute positive	Wait Storage Clear A  *Absolute Add X to A Clear PCR (EAh and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6517 6533 (TAR) 3611 6610 6596 6309	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(82) 94 47 97 (79) (72) (86) (82)
22.	AAY ABSOLUTE HOLD ADD  absolute add	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage *Absolute Add X to A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608  6533 (MAR) 6611 6610 6596 6609	222444444	92 (70) (76) (82) 47 97 (79) (72) (86) (32)

Octal COMMANDS	CONSISTING OF SUB-COMMANDS	<b>T</b> .	CF	CODE
ABSOLUTE CLEAR SUBTRACT  absolute rayature	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage Clear A *Absolute Subtract X from A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608  6517 6534 (EAR) 6611 6610 6596 6609	222244444444444444444444444444444444444	92 (70) (76) (82) 94 48 97 (79) (72) (36) (82)
24. ASY ABSOLUTE HOLD SUBTRACT  atsolute  subtract	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage *Absolute Subtract X from A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6508  9534 (EAR) 9611 9510 6596 6609	222444444	92 (70) (76) (82) 48 97 (79) (72) (86) (82)
25. ALK SHIFT A LEFT  Accumulator left	Transmit EAR to ASK *Initiate Shift A Wait Arithmetic Clear PCR (EAk and CTS) Initiate Read to PCR Transmit PAK to SAR Advance PAK Wait Storage	6612  (EAR) 6611 6593 6610 6609	13/3/4444444444444444444444444444444444	(67) 60 (87) 97 (72) (79) (80) (82)
26. QIK SHIFT Q LEFT  White	Transmit EAR to ASK *Initiate Shift Q Wait Arithmetic Clear PCR (EAR and CTS) Initiate Read to PCR Transmit PAK to SAR Advance PAK Wait Storage	6612  (PAR) 6611 6593 -610 6609	1 3 3 4 4 4 4 4	(67) 35 (87) 97 (72) (79) (86) (82)
SEY SUBSTITUTE EXECUTION ADDRESS	Initiate Write Transmit EAR to SAR Wait Storage Block Left 10 SIR Transmit A to SIR Clear PCR (EAR and CTS) Transmit PAK to SAR Advance PAK Initiate Read to PCR Wait Storage HARLAN SN	6595 6612 6591 6591 6511 6610 6610 5609 5593 YDER	222244444	(71) (70) (82) (78) 38 97 (79) (86) (72) (82)

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Octal No.	COMMANDS	CONSISTING OF SUB-COMMANDS	W	СР	CODE	
31.	SPY SPLIT CLEAR ADD  plit positive	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage Clear A *Split Add X to A *Add X to A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608 6517 6531 6535 (EAR) 6611 6610 6596 6609	7 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 3 3 3 3	92 (70) (76) (82) 94 41 (45) 97 (79) (72) (86) (82)	
32.	BAY BPLIT HOLD ADD	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage *Split Add X to A *Add X to A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608  6531 6535 (EAR) 6611 6610 6596 6609	222444444444444444444444444444444444444	92 (70) (76) (82) 41 (45) 97 (79) (72) (86) (82)	
33.	SNY SPLIT CLEAR SUBTRACT  split negative	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage Clear A *Split Subtract X from A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608  6517 6531 (EAR) 6611 6610 6596 6609	444444	92 (70) (76) (82) 94 42 97 (79) (72) (86) (82)	
34.	SSY SPLIT HOLD SUBTRACT  split subtract	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage *Split Subtract X from A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6519 6592 6608  6531 (EAR) 6611 6610 6596 6609	222444444	92 (70) (76) (82) 42 97 (79) (72) (86) (82)	
	·	HARLAN SNY	DER	entre e manuel de la completa en describa de destre entre en de la completa en del la completa en del la completa en de la completa en de la completa en del la completa en de la completa en de la completa en del la comp	e en	

Octal No.	COMMANDS	CONSISTING OF SUB-COMMANDS	kraljeja i sveto 100 km (100° - 110° km	7	CP	CODE	<b></b>
35•	AYY STORE A  Gausant A 7 Y	Initiate Write Transmit RAR to SAR Wait Storage Transmit A to SIR Clear PCR (EAR and CTS) Transmit PAK to SAR Advance PAK Initiate Read to PCR Wait Storage	(ÉAR)	6595 6308  6511 6611 6610 6609 6596	22244444	(71) (70) (82) (78) 97 (79) (86) (72) (82)	
36.	STORE Q  Xml Q ->	Initiate Write Transmit EAR to SAR Wait Storage Transmit Q to SIR Clear PCR (EAR and CTS) Initiate Read to PCR Transmit PAK to SAR Advance PAK Wait Storage	(EAR)	6595 6508  6512 6611 6596 6610 6609	22244444	(71) (70) (82) 32 97 (72) (79) (86) (82)	
41.	QP- CLEAR ADD FROM Q	Clear A Register *Add Q to A Clear PCR (EAR and CTS) Transmit PAK to SAR Advance PAK Initiate Read to PCR Wait Storage	(EAR)	6517 6513 6611 6610 6609 6596	2 4 4 4 4 4	94 40 97 (79) (86) (72) (82)	94888 <b>AX</b>
42.	QA- HOLD ADD FROM Q Q add	*Add Q to A Clear PCR (EAR and CTS) Transmit PAK to SAR Advance PAK Initiate Read to PCR Wait Storage	(EAR)	6513 6611 6610 6609 6596	14 14 14 14 14	40 97 (7 <b>9</b> ) (86) (72) (82)	and the same and t
	AQ- TRANSMIT A to Q  Xmit H > Q	Clear Q Register Transmit A to Q Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	(EAR)	6518 6516 6611 6610 6596 6609	2444444	93 39 97 (79) (72) (86) (82)	
	Q-CONDITIONAL JUMP  - Jump  + ho Jump  Setheres shift  I left /	If q23 equals 1: Clear PAK Transmit EAR to PAK Shift Q left 1 Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage	<b>J</b> )	6606 6607  6610 6609 6611 6596	233444444	98 (85) (79) (86) (97 (72) (82)	and a factor of the second
		HARLAN SN	YDER				• •
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No. COMMANDS	CONSISTING OF SUB-COMMANDS	W	CP	CODE	
44. (continued)	If q <sub>23</sub> equals 0: *Shift Q left 1 Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage  (EAR)	6610 6609 6611 6596	3 4 4 4 4	(79) (86) 97 (72) (82)	
45. UJy JUMP	Clear PAK Transmit EAR to PAK Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage	6606 6507 6610 6609 6611 6596	1 3 4 4 4 4	98 (85) (79) (86) 97 (72) (82)	
5 CJy SIGN CONDITIONAL JUMP  - JUMP + NO JUMP	If a <sub>h7</sub> equals 1: JUMP Clear PAK Transmit EAR to PAK Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage  (IIJ) (IIIJ) (EAR)	6606 6607 6610 6609 6611 6596	2 3 4 4 4 4	98 (85) (79) (86) 97 (72) (82)	
	If a <sub>17</sub> equals 0: No JUMP Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage  (EAR)	6610 6609 6611 6596	ተ ተ ተ ተ	(79) (86) 97 (72) (82)	
47. ZJy ZERO CONDITIONAL JUMP	*Subtract 1 from A (Initiate Delay Ct.)	6541	1	49	
ZERO COMDITIONAL JOHE	Wait Arithmetic		1	(87)	
A = O NO JUMP	If A does not equal 0: Jump Clear PAK Transmit EAR to PAK Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) Initiate Read to PCR Wait Storage	6506 6607 6610 6609 6611 6596	4 4 4 2	98 (85) (79) (86) 97 (72) (82)	
	If End Borrow Occurs, A equals 0: No Jump Transmit PAK to SAR Advance PAK Clear PCR (EAR and CTS) (EAR) Initiate Read to PCR Wait Storage	6610   6609	14 14 14 14	(85) (86) 97 (72) (82)	
	HARLAN SNYDER	A PARTICIPATION OF THE PARTICI			

Octal No.	COMMANDS	CONSISTING OF SUB-COMMANDS	W	CIP	CODE	_
51	LPy CLEAR LOGICAL MULTIPLY	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage Clear A *Split Add X to A	6519 6592 6608  6517 6531	2 2 2 2 4	92 (70) (76) (82) 94 41	
	lograndposition	*Add X to A *Add Q to A Transmit PAK to SAR Clear PCR (EAR and CTS) Initiate Read to PCR Advance PAK Wait Storage	6535 6513 6610 (EAR) 6611 6596 6609	7 7 7 7 7	(45) 40 (79) 97 (72) (86) (82)	
52.	LAY HOLD LOGICAL MULTIPLY	Clear X Register Initiate Read to X Transmit EAR to SAR Weit Storage *Split Add X to A	6519 6592 6608  6531	2 2 2 2 4	92 (70) (76) (82) 41	
	Jogical add	*Add X to A *Add Q to A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK Wait Storage	6535 6513 (EAR) 6611 6610 6596 6609	7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7+ 7	(45) 40 97 (79) (72) (86) (82)	AA COO4,V
5 <b>3</b> •	POY PRINT ONLY	Initiate Read to PPR# Wait Storage Transmit EAR to SAR Clear PCR (EAR and CTS) Advance PAK Transmit PAK to SAR Initiate Read to PCR Wait Storage	6593  6608 (EAR) 6611 6609 6610 6596	2# 2 2 4 4 4 4 4 4	(68) (82) (76) 97 (86) (85) (72) (82)	despitation de la communicación de la communic
54.	PPy PRINT AND PUNCH	Initiate Read to PPR# Wait Storage Transmit EAR to SAR Clear PCR (EAR and CTS) Advance PAK Transmit PAK to SAR Initiate Read to PCR Wait Storage Connect Punch	6593 6608 (EAR) 6611 6609 6610 6596	2# 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(68) (82) (76) 97 (86) (85) (72) (82) (10)	Transit appropriate continuos incon tenno te
:		##  If machine is printing & POy or PPy sub-command will be sent out when printing is received.				and of the control of

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Octal No.	COMMANDS	CONSISTING OF SUB-COMMANDS	M	CP	CODE	
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71.	NPy CLEAR ADD + 1	Clear X Register Initiate Read to X Transmit EAR to SAR Wait Storage Clear A *Set ao to 1 *Add X to A Clear PCR (EAR and CTS) Transmit PAK to SAR Initiate Read to PCR Advance PAK	6519 6592 6608  6517 6524 6535 a) 6611 6610 6596 6609	222234444444	92 (70) (76) (82) 94 54 45 97 (79) (72) (86)	
	•	Wait Storage		4	(82)	
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<sup>\*</sup> Indicates sub-commands originated in Main Control, re-processed, and issued from ASC as "ASC Sub-commands". Other sub-commands are issued from Main Control.